# ALBERTA PRECISION LABORATORIES

Leaders in Laboratory Medicine

| DATE: | 24 April 2024   |
|-------|---|
| TO:   | Oncologists, Province Wide  |
| FROM: | Edmonton Zone Immunohistochemistry Laboratory, Alberta Precision Laboratories (APL) |
| RE:   | PD-L1 Testing in Stages II/IIIA Non-Small Cell Lung Carcinoma (NSCLC)               |

# PLEASE POST OR DISTRIBUTE AS WIDELY AS APPROPRIATE

#### Key Message

- PD-L1 biomarker immunohistochemistry (IHC) testing to determine patient eligibility of Atezolizumab in resected Stages II to IIIA Non-Small Cell Lung Carcinoma (NSCLC) is now available in the Edmonton Zone IHC Lab.
- Samples:

| Samples Accepted   | Samples Not Accepted  |
|--|---|
| <ul> <li>Samples must be formalin fixed for 6-72 hours.</li> <li>Surgical specimens</li> </ul> | <ul> <li>Specimens fixed in any fixatives other than formalin (including alcohol based)</li> <li>Material for cytology cell blocks (these were not included in the analytical method comparison or clinical outcome studies)</li> <li>Decalcified bone specimens</li> </ul> |

• Requests for testing by Oncologist only

#### Background

- Impower010 clinical trial demonstrated significantly improved disease-free survival with adjuvant Atezolizumab on Stages II to IIIA NSCLC that are negative for EGFR and ALK mutations. The companion diagnostic test, PD-L1 NSCLC (SP263), is now being offered in Alberta.
- Testing will be performed in the Edmonton Zone IHC Lab with interpretation being performed in both Edmonton and Calgary.
- PD-L1 biomarker immunohistochemistry (IHC) testing to determine patient eligibility for Pembrolizumab in advanced non-small cell lung carcinoma (NSCLC) has been available for ordering within Alberta since December 12, 2016, and will continue to be available.

#### Action Required

| Disease                              | Testing<br>Performed                       | How to request  |
|--------------------------------------|--|---|
| Stages II/IIIA<br>NSCLC-<br>Squamous | PD-L1<br>biomarker<br>testing<br>performed | In Epic:<br>Use "Request for Additional Testing for Pathology Samples"<br>Select: |



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|                  |                         | Requested Tests | PD-L1 P  |  |
|------------------|-------------------------|-----------------|--|--|
|                  |                         |                 | Q  |  |
|                  |                         | PD-L1 Testing   | Breast Triple Negative - Pembrolizumab - 22C3  |  |
|                  |                         |                 | Head and Neck Squamous Cell Carcinoma - Pembrolizumab - 22C3                               |  |
|                  |                         |                 | Lung NSCLC - Pembrolizumab - 22C3 - Advanced Stage   |  |
|                  |                         |                 | Lung NSCLS - Atezolizumab - SP263 - Early Stage  |  |
|                  |                         |                 | Upper GI - Nivolumab - 28-8  |  |
|                  |                         |                 | Uterine Cervix - SCC and Adenocarcinoma - Pembrolizumab - 22C3                             |  |
|                  |                         |                 | Other (specify in comment box to the right)  |  |
|                  |                         |                 |  |  |
|                  |                         | Requisition:    | lmonton Zone IHC Lab. Fax: 780-429-2819  |  |
| Stages II/IIIA   | EGFR/ALK-               | In Epic:        |  |  |
| NSCLC- Non-      | 5A4/PD-L1               | -               | for Additional Testing for Pathology Samples"  |  |
| squamous         | biomarker               | Select:         |  |  |
| (Adenocarcinoma) | testing<br>algorithm is | Requested Tests | Lung Carcinoma Mutation Analysis (MP-C,E)  |  |
|                  | performed               |                 |  |  |
|                  |                         | Staging:        | Lung NSCLC-Pembrolizumab -22C3 (Stages IIIB/IV)  |  |
|                  |                         | Staging.        |  |  |
|                  |                         |                 | Lung NSCLC- Atezolizumab - SP263 (Adjuvant therapy Stages II/IIIA)                         |  |
|                  |                         | Deguiaitien     |  |  |
|                  |                         | Requisition:    | Imentan Malagular Dathalagu Lahi Fayi780, 407, 8500  |  |
|                  |                         |                 | 0,   |  |
|                  |                         |                 | Imonton Molecular Pathology Lab: Fax:780-407-8599<br>algary Consult Desk: Fax 403-944-4748 |  |

# Effective April 25, 2024

# **Questions/Concerns**

Edmonton:

- IHC: Dr. Gilbert Bigras- Director IHC Laboratory, <u>Gilbert.Bigras@albertaprecisionlabs.ca</u> 780-432-8445
- Molecular: Dr. Cheryl Mather <u>Cheryl.Mather@albertaprecisionlabs.ca</u> 780-407-2717

# Calgary:

- IHC: Paul Klonowski Associate Medical Director; Director IHC Laboratory, Calgary 403-770-3430
- Dr. Martin Hyrcza Martin.Hyrcza@albertaprecisionlabs.ca 403-944-4759
- Molecular: Dr. Adrian Box Adrian.Box@albertahealthservices.ca

# Approved by

• Dr. Carolyn O'Hara, Interim Chief Medical Laboratory Officer, Alberta Precision Laboratories

Effective September 1, 2023, APL has become the sole provider of all public lab services in Alberta. As a result, community lab services formally provided by DynaLIFE Medical Labs will become the responsibility of Alberta Precision Labs (APL). This change impacts all zones.